

Guidelines For Sediment Control Dewatering Device Usage

The attached detail is to be used for dewatering sediment traps, sediment basins, and stormwater management ponds temporarily used as sediment basins, as a substitute for any of the methods given in the State Standards. When a gravity outlet can be obtained, this device will allow you to provide only 3600 cubic feet of storage in rip-rap outlet traps rather than the 5400 cubic feet required by the new sediment control standards.

- I. This detail shall be placed on the detail sheet of the sediment control plans. The device is to be used on pipe outlet traps in addition to rip-rap outlet traps.
- II. When the device is utilized on a pipe outlet trap, numbers 10 and 11 of the standard construction specifications shall be crossed out where they appear with the standard detail.
- III. All the blank information on the new detail is to be filled out. This includes: (1) The sediment storage elevation; (2) the wet pool elevation; (3) the riser base dimensions; and (4) note numbers 6 through 8.
- IV. The riser shall be sized according to the following criteria:

RISER SIZE: 6" for drainage areas < 5 acres
12" for drainage areas 5 to 10 acres
18" for drainage areas 10 to 15 acres
24" for drainage areas 15 to 20 acres
30" for drainage areas 20 to 25 acres
36" for drainage areas 25 to 30 acres
42" for drainage areas > 30 acres

- V. The dewatering device should be shown schematically on a separate profile of whatever facility it is being utilized on. When the device is utilized on permanent ponds, a separate profile detail is required. The profile should state that a watertight connection must be made to the facility's low flow/drain pipe in accordance with the following:

<u>Dewatering Barrel</u>		<u>Low Flow/ Drain Pipe</u>		
CMP	to	CMP	-	Watertight flange or band connection
CMP	to	DIP	-	Watertight flange to flange connection
CMP	to	PVC	-	Slide the larger CMP over the smaller PVC pipe and secure with watertight concrete collar.

- VI. When the device is utilized on a rip-rap outlet trap, the CMP outfall pipe: (1) must not be located beneath the overflow weir crest and (2) must outfall onto a three feet square apron of four inches average diameter stone.